

3 <110> APPLICANT: COR Therapeutics, Inc.

4

PATENT APPLICATION: US/09/673,302A

Input Set : A:\CO5043US.txt

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LAW, Deborah Ann
          PHILLIPS, David R.
  7 <120> TITLE OF INVENTION: Transgenic Mammals Expressing Mutant GPIIIa
  9 <130> FILE REFERENCE: 44481-5043-US
 11 <140> CURRENT APPLICATION NUMBER: US 09/673,302A
 12 <141> CURRENT FILING DATE: 2001-03-23
 14 <150> PRIOR APPLICATION NUMBER: PCT/US99/08285
 15 <151> PRIOR FILING DATE: 1999-04-15
 17 <150> PRIOR APPLICATION NUMBER: US 60/115,516
 18 <151> PRIOR FILING DATE: 1998-04-15
 20 <160> NUMBER OF SEQ ID NOS: 8
 22 <170> SOFTWARE: PatentIn version 3.1
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 762
 26 <212> TYPE: PRT
 27 <213> ORGANISM: Homo sapiens
29 <220> FEATURE:
30 <221> NAME/KEY: misc_feature
31 <223> OTHER INFORMATION: Glycoprotein IIIa
34 <400> SEQUENCE: 1
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40 Leu Ala Val Ser Pro Met Cys Ala Trp Cys Ser Asp Glu Ala Leu Pro
41
44 Leu Gly Ser Pro Arg Cys Asp Leu Lys Glu Asn Leu Leu Lys Asp Asn
48 Cys Ala Pro Glu Ser Ile Glu Phe Pro Val Ser Glu Ala Arg Val Leu
49
                            55
52 Glu Asp Arg Pro Leu Ser Asp Lys Gly Ser Gly Asp Ser Ser Gln Val
                       70
                                            75
56 Thr Gln Val Ser Pro Gln Arg Ile Ala Leu Arg Leu Arg Pro Asp Asp
57
                   85
                                        90
60 Ser Lys Asn Phe Ser Ile Gln Val Arg Gln Val Glu Asp Tyr Pro Val
               100
                                   105
64 Asp Ile Tyr Tyr Leu Met Asp Leu Ser Tyr Ser Met Lys Asp Asp Leu
65
           115
                               120
68 Trp Ser Ile Gln Asn Leu Gly Thr Lys Leu Ala Thr Gln Met Arg Lys
69
       130
                           135
72 Leu Thr Ser Asn Leu Arg Ile Gly Phe Gly Ala Phe Val Asp Lys Pro
                       150
                                            155
76 Val Ser Pro Tyr Met Tyr Ile Ser Pro Pro Glu Ala Leu Glu Asn Pro
77
                   165
                                       170
```

DATE: 04/24/2002 PATENT APPLICATION: US/09/673,302A TIME: 14:08:10

Input Set : A:\CO5043US.txt

_																
81	O Cys	s Tyr	Asp	Met	Lys	Thr	Thr	Cys	Leu	Pro	Met	Phe	Gly	Tyr	Lys	His
85	5	. Dea	195	Бец	1111	ASP	GIN	va1 200	Thr	Arg	Phe	Asn	Glu	Glu	Val	Lys
88	3 Lys	Gln	Ser	Val	Ser	Ara	Δen	200 Ara	λcn	31 a	D	~ 1	205			Asp
	•						115					~~~				-
92	? Ala	Ile	Met	Gln	Ala	Thr	Val	Cvs	Asp	Glu	Luc	220 Tlo	C1	/// mass	3	Asn
96	Asp	Ala	Ser	His	Leu	Leu	Val	Phe	Thr	Thr	Asp	Ala	Lvs	Thr	Hic	240 Ile
					443					フェハ					~	
10	O AL	a re	u As	p Gl	y Ar	J Lei	ı Ala	Gl	y Ile	e Vai	1 G1:	n Pro) Ası	n As	p Gl	y Gln
	_			201	•				76	_					_	
10	5	J 111	27!	1 G1) 5	y sei	ASP) Asn	1 H15	з Туз	r Sei	r Ala	a Sei	r Thi	r Th	r Me	t Asp
_	_		~ , .	_				/ X I					~~.	-		n Ile
	-		•				247	١				200	١.			
11	2 As	n Lei	ı Ile	e Phe	a Ala	Val	Thr	Glu	Agr	ı Val	Val	300) N. T.O.		- 01	n Asn
11	6 Ту:	r Sei	r Glu	ı Let	ı Ile	Pro	Gly	Thr	Thr	. Val	. Glv	v Val	Leu	Ser	^ Mo	320 : Asp
					323					2 2 ()	n e					
12	U Se:	r Sei	Asn	val	. Leu	Gln	Leu	Ile	Val	Asp	Ala	Tyr	Gly	Lys	Ile	Arg
				J 74 U					415					2 - 2		
125	7 Jej 5	r nys	355	. Glu	reu	Glu	Val	Arg	Asp	Leu	Pro	Glu	Glu	Leu	Sei	Leu
								3 5 13					200			
	-	9,0					3/7					200				Lys
132	2 Ser	Cys	Met	Gly	Leu	Lvs	Ile	Glv	Asn	Thr	Va I	380	nh -	0	- 1	Glu
						71/					205					
136	Ala	Lys	Val	Arg	Gly	Cys	Pro	Gln	Glu	Lvs	Glu	Lvs	Ser	Dho	Thr	400 Ile
					403					110						
140	ry r	Pro	Val	Gly	Phe	Lys	Asp	Ser	Leu	Ile	Val	Gln	Val	Thr	Phe	Asp
				720					ハント					4		
145	Cys	чэр	Cys 435	Ald	Cys	GIn	Ala	Gln	Ala	Glu	Pro	Asn	Ser	His	Arg	Cys
		Asn		Asn	Glv	Thr	Dho	440	0	a 1.		_	445			
			Gly													
152	Gly	Trp	Leu	Gly	Ser	Gln	Cvs	Glu	Cvs	Ser	Glu	460	7	m		_
						4/0					475					
156	Ser	Gln	Gln	Asp	Glu	Cys	Ser	Pro	Arg	Glu	Glv	Gln	Pro	Val	Cve	400 Sor
160	GIn	Arg	Gly	Glu	Cys	Leu	Cys	Gly	Gln	Cys	Val	Cys	His	Ser	Ser	Asp
165	FIIG	GTÄ	Lys 515	тте	Inr	GLY	Lys	Tyr	Cys	Glu	Cys	Asp	Asp	Phe	Ser	Cys ·
			~ ~ ~					720					$F \cap F$			
169		530	Tyr	~13	оту	GIU.	мес 535	cys	ser	GTÀ	His	Gly	Gln	Cys	Ser	Cys
172	Gly		Cys	Leu	Cys	Asp :	Ser :	Asn	ጥተካ	ሞb∽	C1	540	m	a	_	_
176	Thr	Thr	Arg	Thr	Asp '	Thr (Cys 1	Met	Ser	Ser	Asn	Glv	ريم.T	T.ou	Cvc	560
					_		_	-	_			- <u>y</u>	u	₽¢ű	Cys	ser,

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Input Set : A:\CO5043US.txt

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177
                           565
                                               570
       180 Gly Arg Gly Lys Cys Glu Cys Gly Ser Cys Val Cys Ile Gln Pro Gly
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                                           585
      184 Ser Tyr Gly Asp Thr Cys Glu Lys Cys Pro Thr Cys Pro Asp Ala Cys
                  595
                                       600
      188 Thr Phe Lys Lys Glu Cys Val Glu Cys Lys Lys Phe Asp Arg Gly Ala
      192 Leu His Asp Glu Asn Thr Cys Asn Arg Tyr Cys Arg Asp Glu Ile Glu
      196 Ser Val Lys Glu Leu Lys Asp Thr Gly Lys Asp Ala Val Asn Cys Thr
                                               650
      200 Tyr Lys Asn Glu Asp Asp Cys Val Val Arg Phe Gln Tyr Tyr Glu Asp
                      660
                                          665
      204 Ser Ser Gly Lys Ser Ile Leu Tyr Val Val Glu Glu Pro Glu Cys Pro
      205
                                      680
      208 Lys Gly Pro Asp Ile Leu Val Val Leu Leu Ser Val Met Gly Ala Ile
                                  695
      212 Leu Leu Ile Gly Leu Ala Ala Leu Leu Ile Trp Lys Leu Leu Ile Thr
                              710
                                                  715
      216 Ile His Asp Arg Lys Glu Phe Ala Lys Phe Glu Glu Glu Arg Ala Arg
                          725
                                              730
      220 Ala Lys Trp Asp Thr Ala Asn Asn Pro Leu Tyr Lys Glu Ala Thr Ser
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     224 Thr Phe Thr Asn Ile Thr Tyr Arg Gly Thr
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     235 <223> OTHER INFORMATION: Segment of GPIIIa beta-3 subunit
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     240 <222> LOCATION: (41)..(66)
     241 <223> OTHER INFORMATION: Xaa can be any amino acid and may be present or missing
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     246 Lys Leu Leu Thr Thr His Asp Arg Lys Glu Phe Ala Lys Phe Glu
     247 1
                                             10
     250 Glu Glu Arg Ala Arg Ala Lys Trp Asp Thr Ala Asn Asn Pro Leu Tyr
                                         25
W--> 254 Lys Glu Ala Thr Ser Thr Phe Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa
                 35
W--> 258 Asn Ile Thr Tyr Arg Gly Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
     259
             50
                                 55
W--> 262 Xaa Xaa
     263 65
    266 <210> SEQ ID NO: 3
     267 <211> LENGTH: 66
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Input Set : A:\CO5043US.txt

- 268 <212> TYPE: PRT
- 269 <213> ORGANISM: Mus musculus
- 271 <220> FEATURE:
- 272 <221> NAME/KEY: misc_feature
- 273 <223> OTHER INFORMATION: Segment of GPIIIa beta-6 subunit
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- 277 <221> NAME/KEY: misc_feature
- 278 <222> LOCATION: (41)..(48)
- 279 <223> OTHER INFORMATION: Xaa can be any amino acid and may be present or missing
- 282 <400> SEQUENCE: 3
- 284 Lys Leu Leu Val Ser Phe His Asp Arg Lys Glu Val Ala Lys Phe Glu
- 288 Ala Glu Arg Ser Lys Ala Lys Trp Gln Thr Gly Thr Asn Pro Leu Tyr
- 289 20
- W--> 292 Arg Gly Ser Thr Ser Thr Phe Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 - 35 40
 - 296 Asn Val Thr Tyr Lys His Arg Glu Lys Gln Lys Val Asp Leu Ser Thr
 - 297 55
 - 300 Asp Cys
 - 301 65
 - 304 <210> SEQ ID NO: 4
 - 305 <211> LENGTH: 66
 - 306 <212> TYPE: PRT
 - 307 <213> ORGANISM: Mus musculus
 - 309 <220> FEATURE:
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 - 311 <223> OTHER INFORMATION: Segment of GPIIIa beta-1 subunit
 - 314 <220> FEATURE:
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 - 316 <222> LOCATION: (41)..(66)
 - 317 <223> OTHER INFORMATION: Xaa can be any amino acid and may be present or missing
 - 320 <400> SEQUENCE: 4
 - 322 Lys Leu Leu Met Leu Ile His Asp Arg Glu Glu Ala Lys Glu Glu
 - 323 1 5 10
 - 326 Lys Glu Lys Met Asn Ala Lys Trp Asp Thr Gly Glu Asn Pro Ile Tyr
 - 327 20
- W--> 330 Lys Ser Ala Val Thr Thr Val Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 - 35
- W--> 334 Asn Pro Lys Tyr Glu Gly Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa 335 50
- W--> 338 Xaa Xaa
 - 339 65
 - 342 <210> SEQ ID NO: 5
 - 343 <211> LENGTH: 66
 - 344 <212> TYPE: PRT
 - 345 <213> ORGANISM: Mus musculus
 - 347 <220> FEATURE:
 - 348 <221> NAME/KEY: misc_feature
 - 349 <223> OTHER INFORMATION: Segment of GPIIIa beta-5 subunit

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DATE: 04/24/2002 TIME: 14:08:10

Input Set : A:\CO5043US.txt

- 352 <220> FEATURE:
- 353 <221> NAME/KEY: misc_feature
- 354 <222> LOCATION: (58)..(66)
- 355 <223> OTHER INFORMATION: Xaa can be any amino acid and may be present or missing
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- 364 Ser Glu Arg Ser Arg Ala Arg Tyr Glu Met Ala Ser Asn Pro Leu Tyr
- 368 Arg Lys Pro Ile Ser Thr His Thr Val Asp Phe Thr Phe Asn Lys Phe 35
- 40
- W--> 372 Asn Lys Ser Tyr Asn Gly Thr Val Asp Xaa Xaa Xaa Xaa Xaa Xaa Xaa 373 50 55
- W--> 376 Xaa Xaa
 - 377 65
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 - 381 <211> LENGTH: 66
 - 382 <212> TYPE: PRT
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 - 386 <221> NAME/KEY: misc_feature
 - 387 <223> OTHER INFORMATION: Segment of GPIIIa beta-2 subunit
 - 390 <220> FEATURE:
 - 391 <221> NAME/KEY: misc_feature
 - 392 <222> LOCATION: (28)..(66)
 - 393 <223> OTHER INFORMATION: Xaa can be any amino acid and may be present or missing
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 - 398 Lys Ala Leu Thr His Leu Ser Asp Leu Arg Glu Tyr Arg Arg Phe Glu
 - 399 1
- W--> 402 Lys Glu Lys Leu Lys Ser Gln Trp Asn Asn Asp Xaa Asn Pro Leu Phe 403 20
- 25 W--> 406 Lys Ser Ala Thr Thr Val Met Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 - 407 35 40
- W--> 410 Asn Pro Lys Phe Ala Glu Ser Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 - 411 50 55
- W--> 414 Xaa Xaa
 - 415 65
 - 418 <210> SEQ ID NO: 7
 - 419 <211> LENGTH: 66
 - 420 <212> TYPE: PRT
 - 421 <213> ORGANISM: Mus musculus
 - 423 <220> FEATURE:
 - 424 <221> NAME/KEY: misc_feature
 - 425 <223> OTHER INFORMATION: Segment of GPIIIa beta-7 subunit
 - 428 <220> FEATURE:
 - 429 <221> NAME/KEY: misc_feature
 - 430 <222> LOCATION: (41)..(66)
 - 431 <223> OTHER INFORMATION: Xaa can be any amino acid and may be present or missing
 - 434 <400> SEQUENCE: 7

RAW SEQUENCE LISTING ERROR SUMMARY PATENT APPLICATION: US/09/673,302A

DATE: 04/24/2002 TIME: 14:08:11

Input Set : A:\CO5043US.txt

Output Set: N:\CRF3\04242002\1673302A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; Xaa Pos. 41,42,43,44,45,46,47,48,56,57,58,59,60,61,62,63,64,65,66

Seq#:3; Xaa Pos. 41,42,43,44,45,46,47,48

Seq#:4; Xaa Pos. 41,42,43,44,45,46,47,48,56,57,58,59,60,61,62,63,64,65,66

Seq#:5; Xaa Pos. 58,59,60,61,62,63,64,65,66

Seq#:6; Xaa Pos. 28,41,42,43,44,45,46,47,48,56,57,58,59,60,61,62,63,64,65

Seq#:6; Xaa Pos. 66

Seq#:7; Xaa Pos. 41,42,43,44,45,46,47,48,61,62,63,64,65,66

Seq#:8; Xaa Pos. 5,17,19,20,21,23,25,26,27,28,34,36,37,39,40,41,42,43,44,45

Seq#:8; Xaa Pos. 46,47,48,49,51,52,54,55,56,57,58,59,60,61,62,63,64,65

DATE: 04/24/2002

TIME: 14:08:11

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/673,302A

Input Set : A:\CO5043US.txt

Output Set: N:\CRF3\04242002\1673302A.raw

L:254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:32 L:258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:48 L:262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:64 L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:32 L:330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:32 L:334 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:48 L:338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:64 L:372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:48 L:376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:64 L:402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:16 L:406 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:32 L:410 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:48 L:414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:64 L:444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:32 L:448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:48 L:452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:64 L:472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0 L:476 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:16 L:480 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:32 L:484 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:48 L:488 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:64